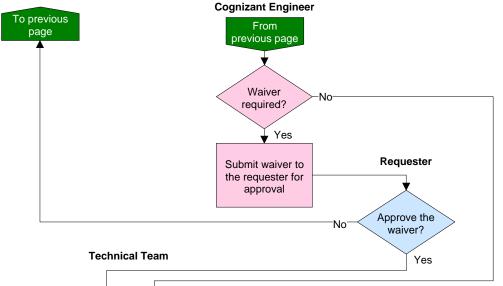
### **Technical Team** REPORTING AND DISPOSITION OF NONCONFORMING **AEROSPACE HARDWARE ITEMS AND PRODUCTS START** LMS-CP-5507 Revision: C-3 Objectives: -to document, investigate, and resolve discrepancies found during inspection or test Document -to identify nonconforming items or product enabling remedial action discrepancy and -to obtain appropriate approval for disposition of nonconforming items or product analyze to -to ensure disposition of nonconforming items or product determine cause -to enter causes of discrepancies and nonconforming items or product into and if the corrective action system when the cause(s) is determined to be systemic nonconforming item and product exists Original signed on file Approval (see Note 1) Associate Director for Research and Technology Competencies **General Information** Nonconforming item or product? The following records are generated by this procedure and should be maintained in accordance with CID 1440.7: Configuration Management Plan Yes Nonconformance Failure Report (LF 143) Nonconformance Report (LF 149) Mark the item or Nonconformance Report Number Assignment Log product as nonconforming. Notify supplier and Note 1 segregate the Methods of documentation are controlled by product assurance requirements of nonconforming the project/activity and include: item or product. -LF 143 (NFR) (see Note 2 & 3) -LF 149 (NCR) -Hardware Log Book **Technical Lead or** Engineering Log Book Cognizant Engineer For all space items, LF 143 must be used. Further analyze the Review For nonconforming item or product LF 143 or LF 149 must be used. discrepancy and recommendation document for acceptability of After observation and documentation of a discrepancy, an analysis is performed recommendation proposed to determine if it is due to nonconformance of item or product being inspected or for disposition disposition tested or some "other cause," e.g., operator or procedural error or (see Notes 1 & 4) (see Note 5) misinterpretation. If a nonconforming item is suspected, further analysis is performed to determine if a nonconforming product exists. In all cases, including "other causes," analysis includes the consideration of part or product damage or stress from propagated failure or abnormal conditions. Disposition Definition of Terms: acceptable? A "discrepancy" is any observed variance, lack of agreement, or contradiction to the required or expected outcome, configuration, or result. Yes A "nonconformance" is a nonfunctional workmanship condition of any item Follow (hardware or software) in which one or more characteristics do not conform to project/activity drawing specification or procedure requirements. product assurance requirements A "nonconforming item" is software, hardware, or assemblage there of, either and/or LF 143 to produced at Langley, acquired, or in some combination, that is identified as not obtain any required meeting documented requirements following verification or testing, i.e., that is approvals found to have a nonconformance. A "nonconforming (Langley) product" is defined (see Langley Management Investigate System Policy Manual, LMS-PM) as software developed or hardware fabricated potential need for at Langley by civil servants that is identified as not meeting documented waiver requirements following verification or testing; acquired or assembled "items" are (see Note 6) not considered "products." Note 2 In some cases, it may not be feasible or practical to mark the actual item or project. In this case, appropriate related records or documentation is marked. The methods for marking items and/or products are controlled by product assurance requirements of the project/activity and include: . -LF 133, LF 136 -LF 143 (NFR) -LF 149 (NCR) Logbook -Inking/Coloring To next page -Tagging

From next

page



Submit copy of

LF 143 or LF 149 to competency

nonconforming

project panel (see Note 9)

**Technical Lead or** 

# Note 3

If the item or product is stand alone and can be moved without the use of lifting equipment, disassembly, or test setup disruption, it must be segregated to avoid inadvertent use or further processing.

# Implement approved disposition and inform technical lead when the work is completed (see Note 7) No Acceptable? Yes

# Note 7

Implement a change to baselined configuration or documents using LMS-CP-5510 and the configuration management requirements of the activity.

**END** 

Reinspection and retesting is required on all disposition items/products except those that are used "as is."

Observation of discrepancy during disposition leads to re-entry into this procedure.

# Note 8

The following forms of verification are acceptable:

- -Reinspection
- -Review of test results
- -Review of design documentation or Log Books
- -Interviews with interested parties

When using LF 143 (NFR), the project/activity quality assurance specialist must approve and close-out NFR.

# Note 9

A copy of the LF 143 or LF 149 is submitted to the Competency Nonconforming Product Panel for trending and consideration for implementation of corrective and/or preventative action, including generation of a CAPTracs entry, following LMS-CP-5645.

### Note 4

Analysis and intermediate disposition may include further test or investigation and/or formation of "tiger teams" using LMS-CP-5508.

Forms of disposition include:

# Accept as is

Use of an item which is found to depart from specified requirements, but is considered suitable for use "as is". May require Waiver, see Note 6.

### Divert end use

Mark and designate item for alternate use. May require Waiver, see Note 6.

## Replace

Nonconforming or failed item is removed and a new item is installed. Original item may be diverted for alternate use or analyzed and/or scrapped.

# Rework/repair

Item is corrected or repaired and reinstalled. May require Waiver, see Note 6.

# Redesign

Redesign requires technical team to revisit design and make modification to item or product.

# Reject/Scrap

Destroy or remove from all use.

# Note 5

In addition to reviewing recommended disposition of discrepancy, review documentation to confirm:

- -Sufficient detail provided
- -Impact on performance, cost and schedule
- -Feasibility/practicality of proposed disposition
- -Agreement with technical conclusion
- -Required approvals

When using LF 143 (NFR), the project/activity material review board must approve disposition.

# Note 6

Where required by Work Agreement or product assurance requirements, the proposed use or repair of item or product which does not conform to specified requirements is reported for Waiver to the requester or requester's representative. Obtain concurrence of appropriate responsible project and/or competency management prior to presenting Waiver to requester.